

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/006207

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 5-11 _____ as originally filed/furnished
- pages* 1-4 _____ received by this Authority on /filed with the demand
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. _____ as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 1-14 _____ received by this Authority on /filed with the demand
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets 1/4-4/4 _____ as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. II

Priority

1. ☒ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
- ☒ copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
- ☐ translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2. ☐ This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	<u>1-14</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-14</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-14</u>	YES
	Claims		NO
2. Citations and explanations (Rule 70.7)			
<p>1. Claim 1 of the present application contains two linked or connected groups of features and therefore effectively presents two versions of the claim.</p> <p>EP-A-1 310 577 (D1), which is considered to represent the prior art closest to the subject matter of claim 1, discloses (see figure 1) a radial plunger pump as per the preamble of claim 1 with a piston sole plate 103 which contacts a peripheral surface of a roller 200. Further, the surface of the piston sole plate 103a which contacts the peripheral surface of the roller is made of a wear-resistant hard metal (figure 12 and column 19, lines 7-15).</p> <p>The first version of claim 1 differs therefrom in that the wear-resistant materials indicated in the claim are applied to the piston sole plate of the radial plunger pump in the form of insets. This makes possible a modular structure: that is, in each application a standardized piston sole plate can be provided with insets of a different</p>			

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material. Such an inset is not known from the available prior art and no suggestion relevant thereto is provided.

The second version of claim 1, whereby the roller consists at least partially of the wear-resistant materials indicated in the claim, is likewise not suggested by D1, since this describes only the use of normal cast iron (column 19, lines 14-15).

2. Claims 2-14 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.